

## STRADA-2X2-CAT

Catenary street light beam optimized for EN13201 M-classes

### SPECIFICATION:

Dimensions	50.0 x 50.0
Height	6.2 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ

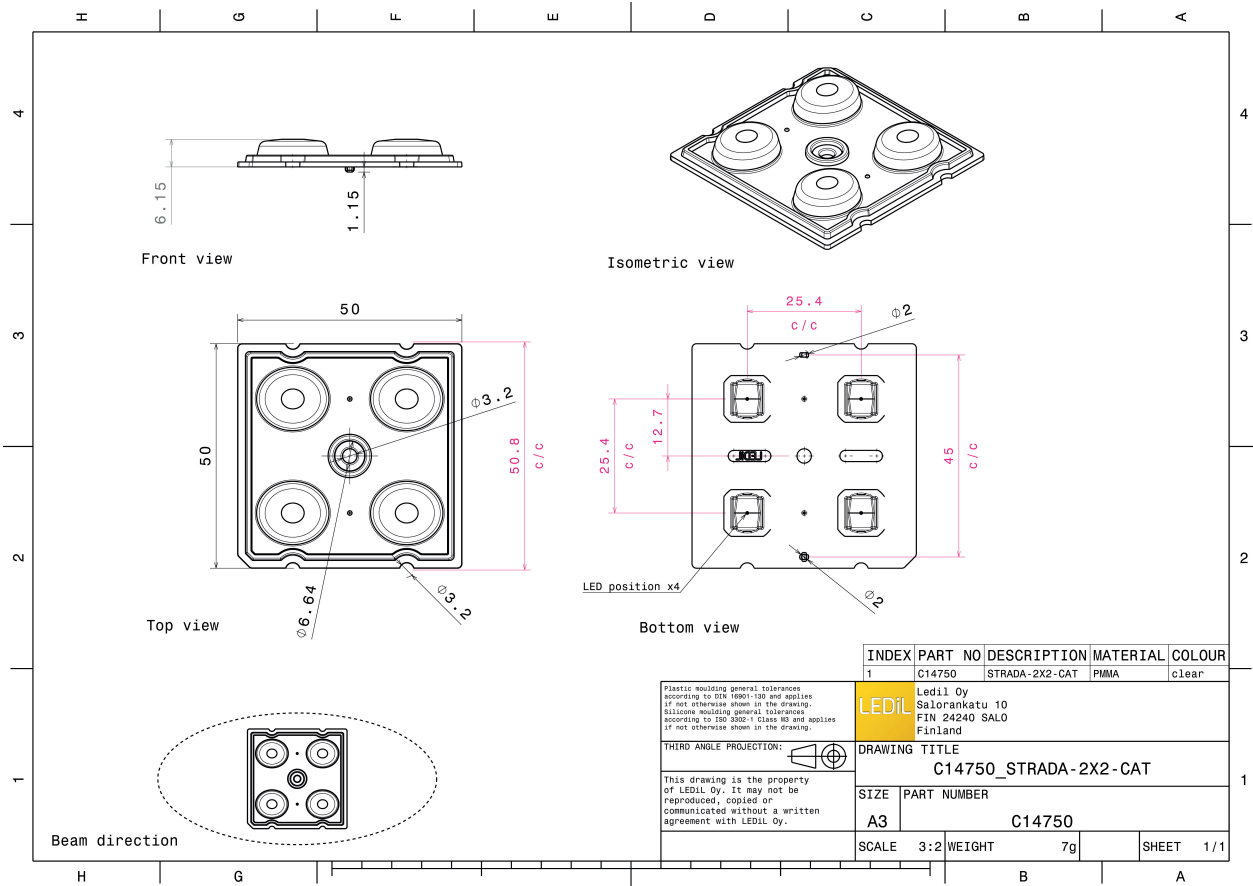


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
STRADA-2X2-CAT	Multi-lens	PMMA	clear		

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14750_STRADA-2X2-CAT » Box size: 480 x 280 x 300 mm	800	160	160	6.3

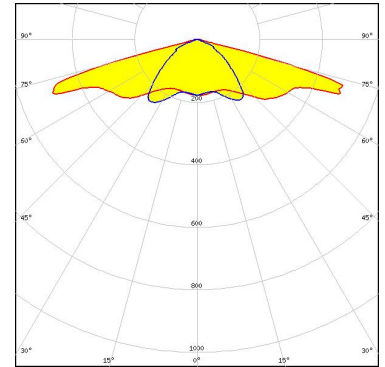


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



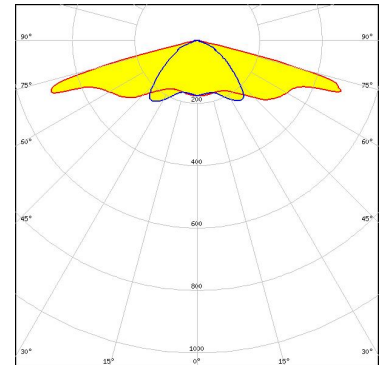
LED QUICK FLUX XTP 2x4 xxx LS G5  
FWHM / FWTM 152.0 + 117.0° / 158.0 + 144.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



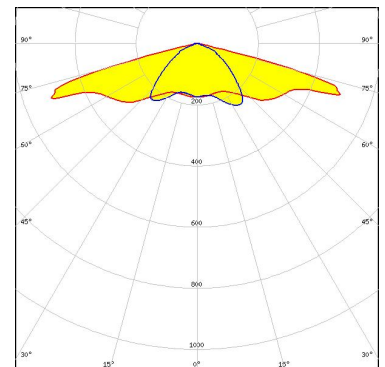
LED QUICK FLUX XTP 2x6 xxx LS G5  
FWHM / FWTM 153.0 + 118.0° / 158.0 + 145.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED QUICK FLUX XTP 2x8 xxx LS G5  
FWHM / FWTM 152.0 + 118.0° / 157.0 + 145.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

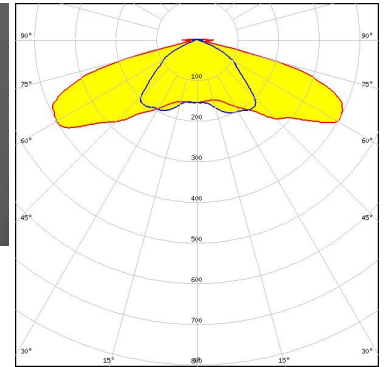


Light distribution files

#### OPTICAL RESULTS (MEASURED):



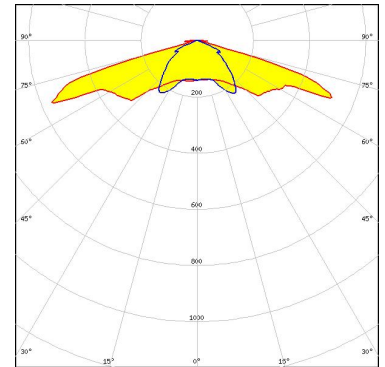
LED XD16  
 FWHM / FWTM 150.0 + 126.0° / 178.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 4  
 Light colour/type White  
 Required components:



Light distribution files



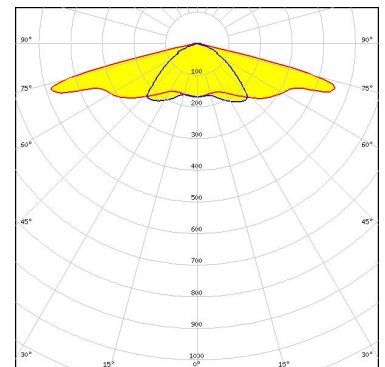
LED XD16  
 FWHM / FWTM 148.0 + 133.0° / 176.0 + 145.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XM-L3  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

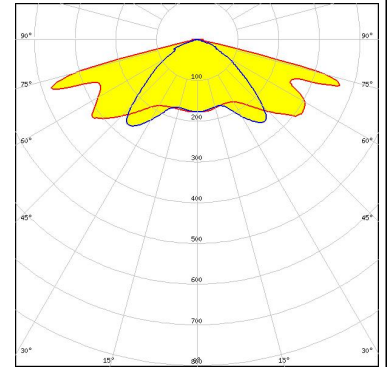


Light distribution files

### OPTICAL RESULTS (MEASURED):



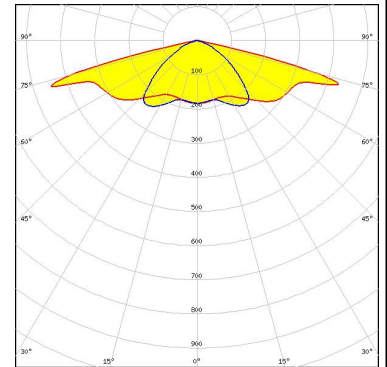
LED XP-G2  
FWHM / FWTM 153.0 + 118.0° / 156.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



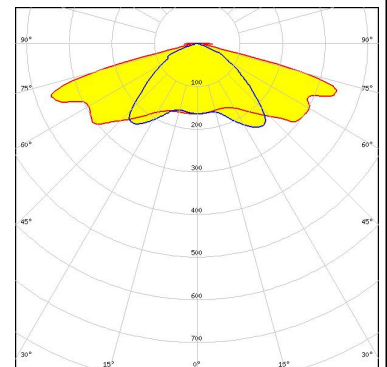
LED XP-G2 HE  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-G3  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

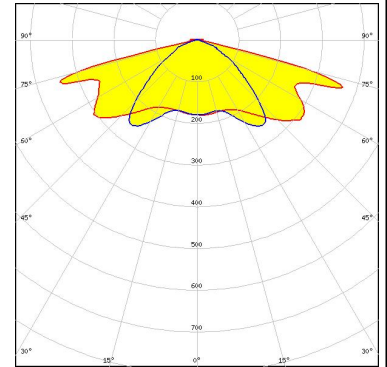


Light distribution files

#### OPTICAL RESULTS (MEASURED):



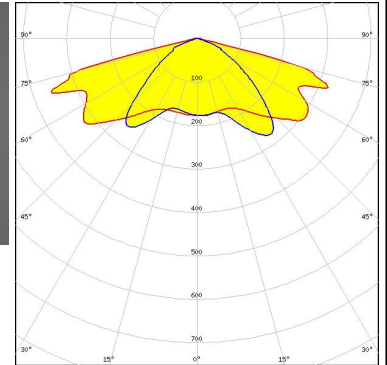
LED XP-L HI  
FWHM / FWTM 153.0 + 118.0° / 156.0 + 143.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



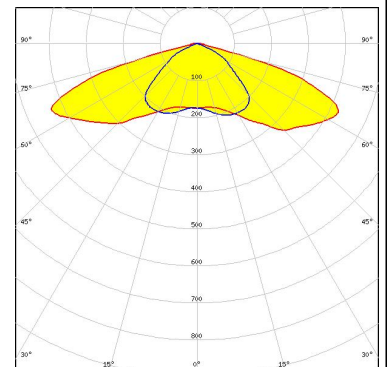
LED PrevaLED Brick HP 2x8  
FWHM / FWTM 152.0 + 119.0° / 155.0 + 144.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON 5050 Round LES  
FWHM / FWTM 149.0 + 119.0° / 154.0 + 138.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

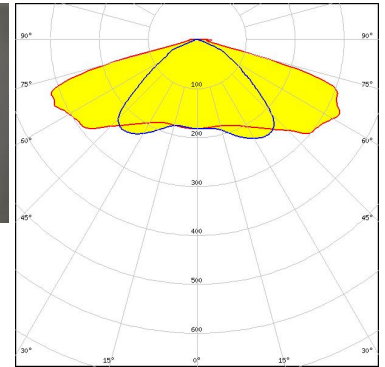
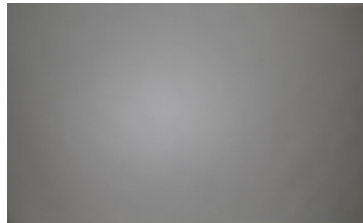


Light distribution files

### OPTICAL RESULTS (MEASURED):



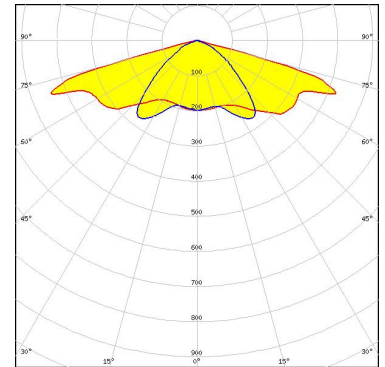
LED LUXEON V  
FWHM / FWTM 152.0 + 117.0° / 174.0 + 141.0°  
Efficiency 94 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



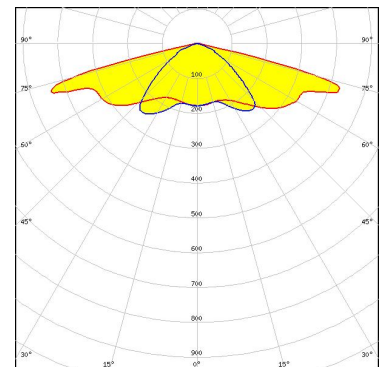
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSW219F-V2  
FWHM / FWTM 154.0 + 118.0° / 156.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

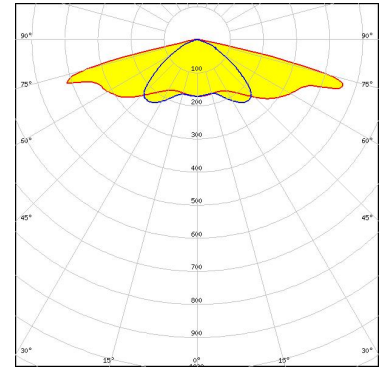


Light distribution files

#### OPTICAL RESULTS (MEASURED):



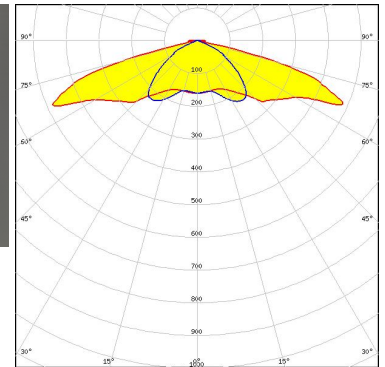
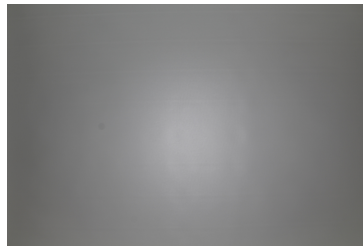
LED NVSW319B  
FWHM / FWTM 155.0 + 120.0° / 158.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



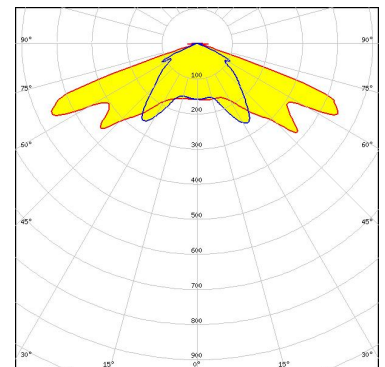
LED NVSW3x9A  
FWHM / FWTM 152.0 + 125.0° / 157.0 + 140.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSxE21A  
FWHM / FWTM 142.0 + 130.0° / 147.0 + 140.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

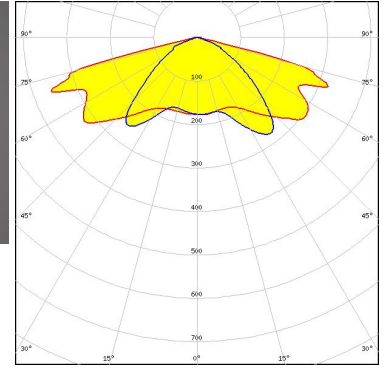


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

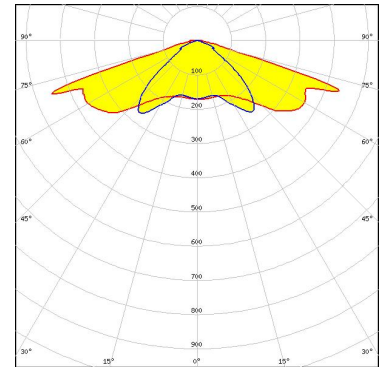
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 152.0 + 119.0° / 155.0 + 144.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

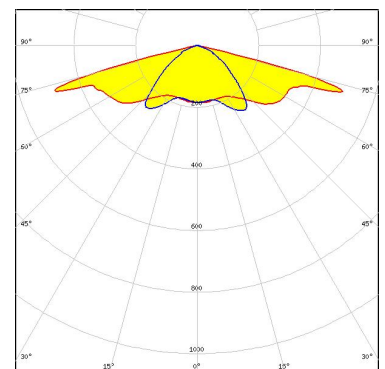
LED OSLON Square PC  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**PHILIPS**

LED Fortimo FastFlex LED 2x8 DA G4  
 FWHM / FWTM 117.0 + 153.0° / 143.0 + 155.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

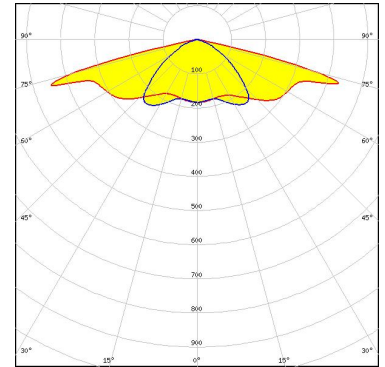


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### PHILIPS

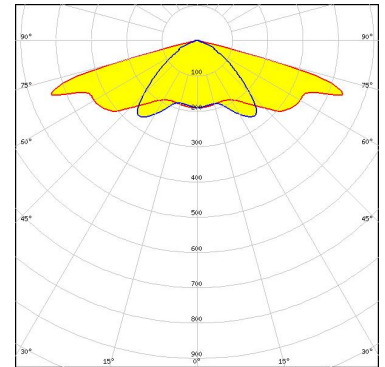
LED Fortimo FastFlex LED 2x8 DA G4+  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### PHILIPS

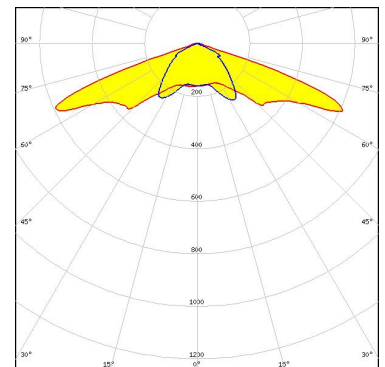
LED Fortimo FastFlex LED 2x8 DA G5  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

LED HiLOM RC12 Z (LH181B)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

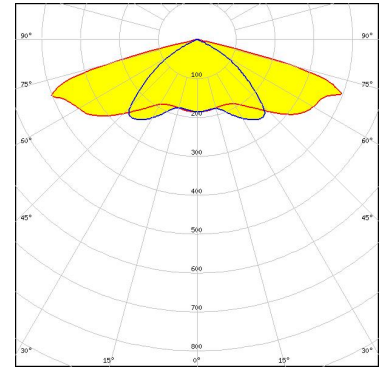


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

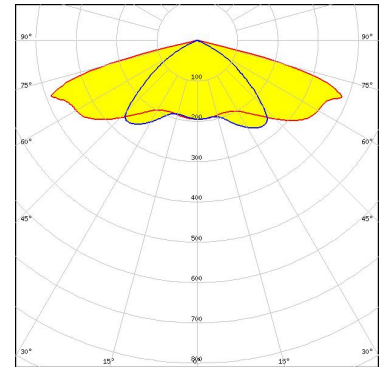
LED HiLOM RH12 Z (LH351C)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

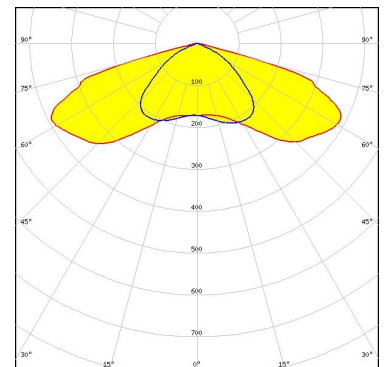
LED HiLOM RH16 (LH351C)  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

LED HiLOM RM12 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

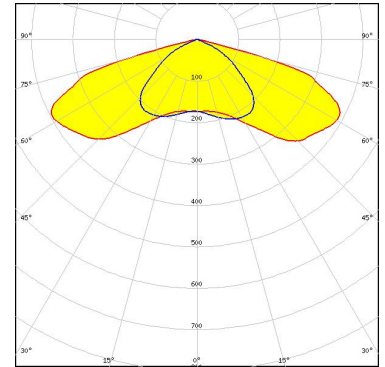


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

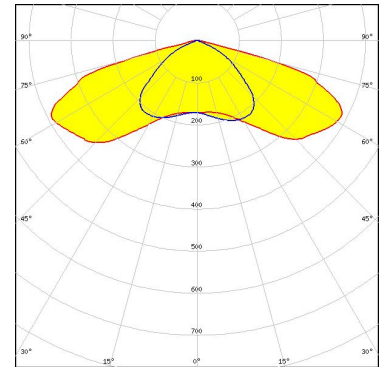
LED HiLOM RM16 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 99 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

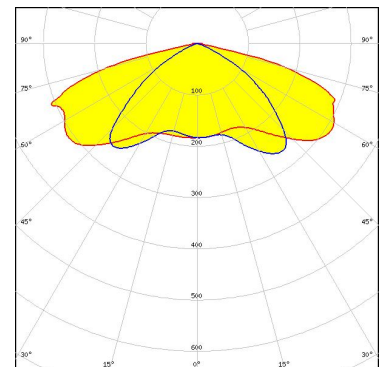
LED HiLOM RM8 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

LED LH351B  
FWHM / FWTM 154.0 + 119.0° / 158.0 + 136.0°  
Efficiency 94 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

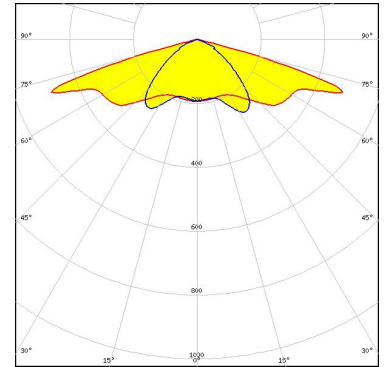


Light distribution files

#### OPTICAL RESULTS (MEASURED):



LED LED-Pa-L15c2W11c2-xxx-C050-01  
 FWHM / FWTM Asymmetric  
 Efficiency 99 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

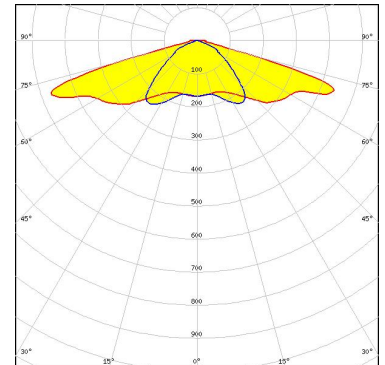


Light distribution files



SEOL SEMICONDUCTOR

LED Z5M3  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

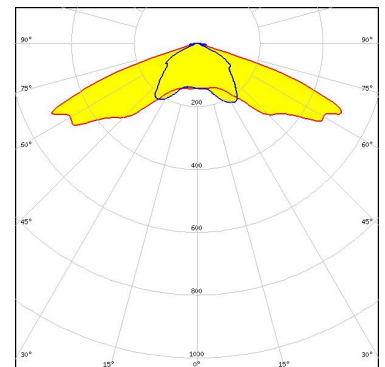


Light distribution files





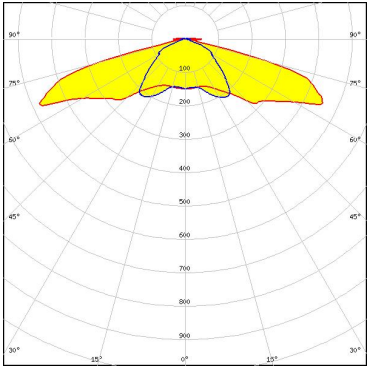
SEOL SEMICONDUCTOR

LED Z8Y22  
 FWHM / FWTM 143.0 + 128.0° / 149.0 + 172.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

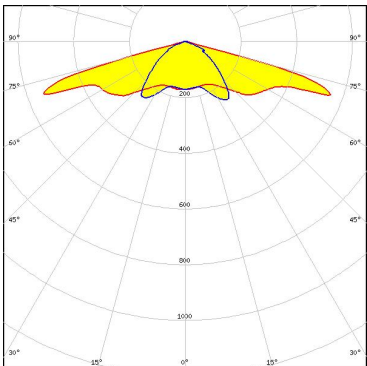


Light distribution files

#### OPTICAL RESULTS (MEASURED):

 <small>SEOUL SEMICONDUCTOR</small>			
LED	Z8Y22P		
FWHM / FWTM	151.0 + 130.0° / 169.0 + 146.0°		
Efficiency	94 %		
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		
Light colour/type	White		
Required components:		<p>Light distribution files</p>	

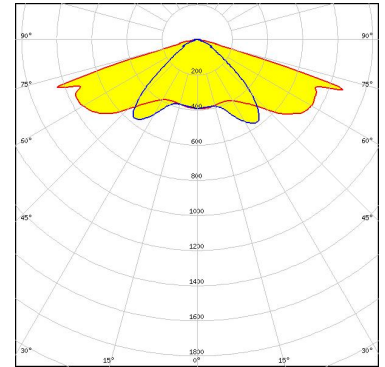
<h2>TRIDONIC</h2>	
LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	151.0 + 119.0° / 155.0 + 142.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

<h2>TRIDONIC</h2>		
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	151.0 + 119.0° / 155.0 + 142.0°	
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour/type	White	
Required components:		<p>Light distribution files</p>

#### OPTICAL RESULTS (MEASURED):

### TRIDONIC

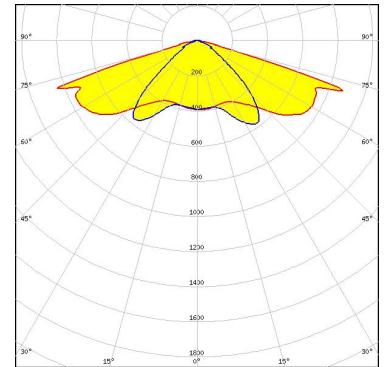
LED RLE G1 49x121mm 2000lm xxx EXC OTD  
FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### TRIDONIC

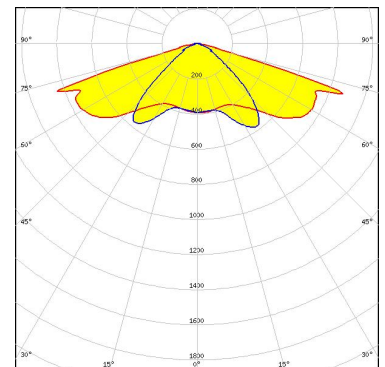
LED RLE G1 49x133mm 2000lm xxx EXC OTD  
FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

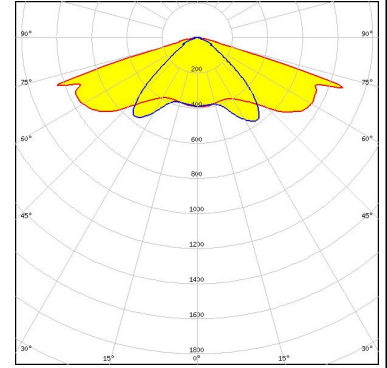


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

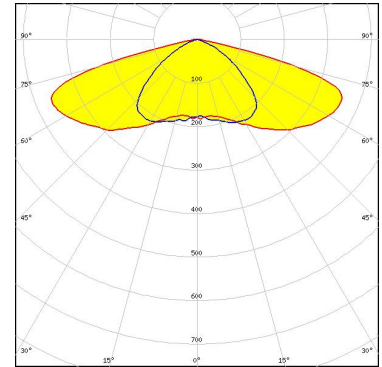


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



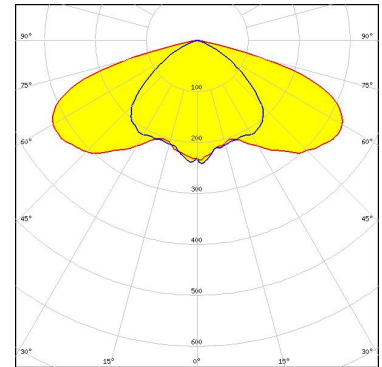
LED J Series 5050 6V P Class  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED J Series 5050B 6V K Class  
 FWHM / FWTM Asymmetric  
 Efficiency 91 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

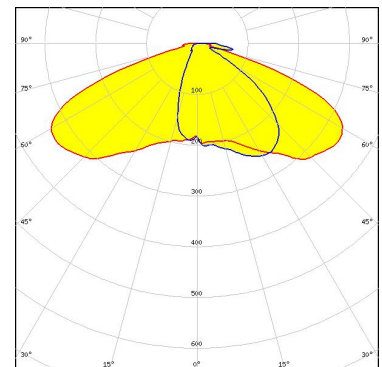


Protective plate, glass

Light distribution files



LED J Series 5050C 6V E Class  
 FWHM / FWTM Asymmetric  
 Efficiency 73 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17580\_STRADA-2X2-SHD-WHT

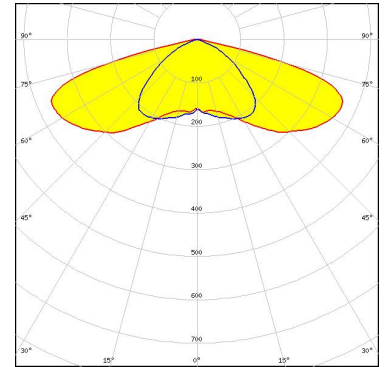


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



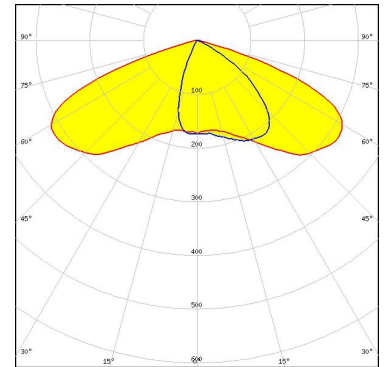
LED J Series 5050C 6V E Class  
 FWHM / FWTM 152.0 + 112.0° / 158.0 + 140.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



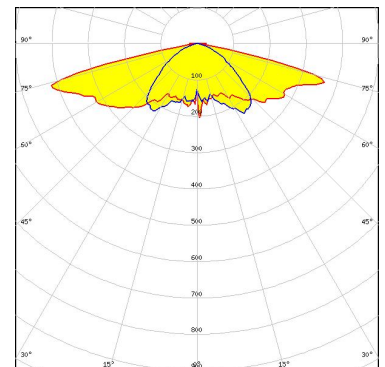
LED J Series 5050C 6V E Class  
 FWHM / FWTM Asymmetric  
 Efficiency 61 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17677\_STRADA-2X2-SHD-BLK



Light distribution files



LED XB-D  
 FWHM / FWTM 154.0 + 107.0° / 180.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

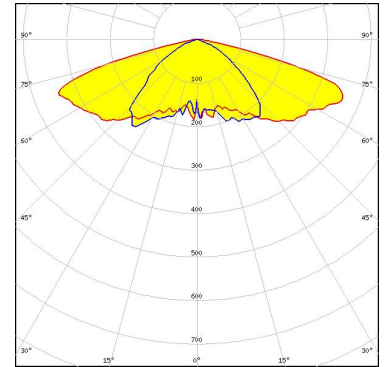


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



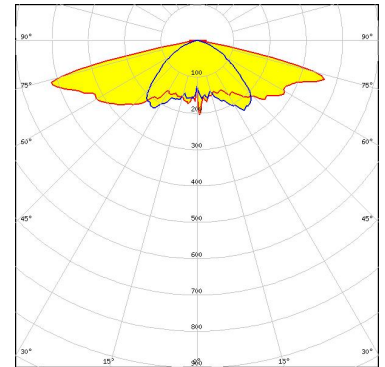
LED XM-L  
 FWHM / FWTM 109.0 + 152.0° / 142.0 + 162.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



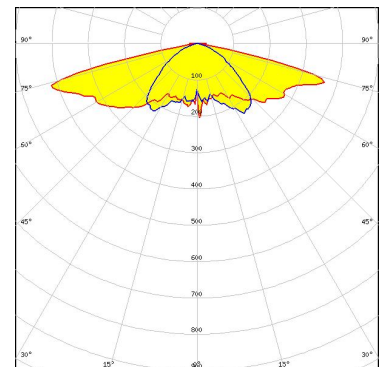
LED XM-L2  
 FWHM / FWTM 153.0 + 112.0° / 159.0 + 139.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G  
 FWHM / FWTM 156.0 + 112.0° / 161.0 + 144.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



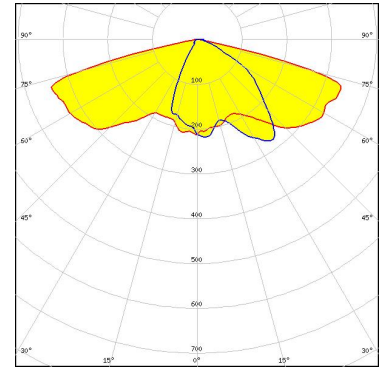
Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED XP-G2  
 FWHM / FWTM Asymmetric  
 Efficiency 75 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:  
 C17580\_STRADA-2X2-SHD-WHT

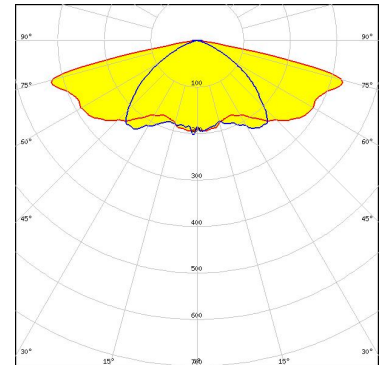


Light distribution files



LED XP-G2 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

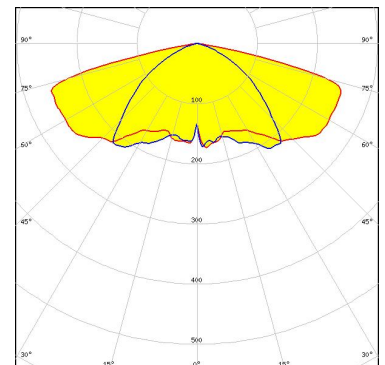


Light distribution files



LED XP-G3  
 FWHM / FWTM 154.0 + 112.0° / 162.0 + 142.0°  
 Efficiency 82 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:



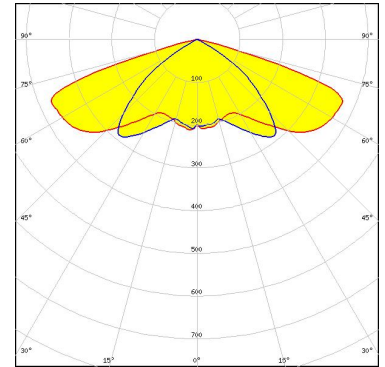
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



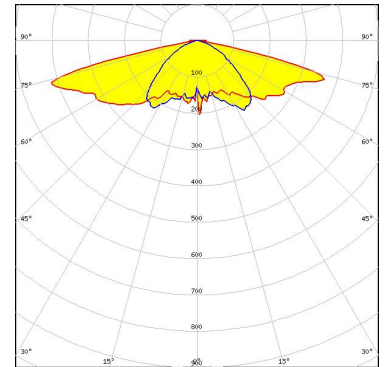
LED XP-G4  
 FWHM / FWTM 146.0 + 106.0° / 154.0 + 122.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



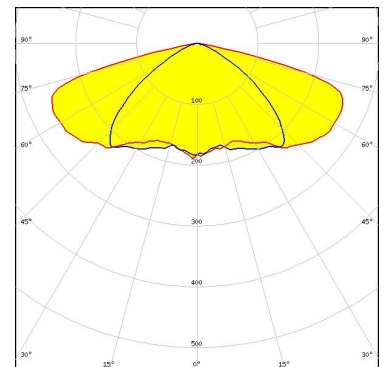
LED XP-L HD  
 FWHM / FWTM 155.0 + 109.0° / 161.0 + 132.0°  
 Efficiency 91 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



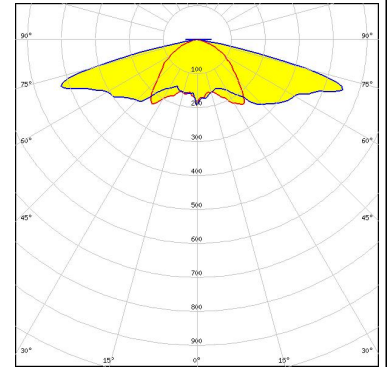
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



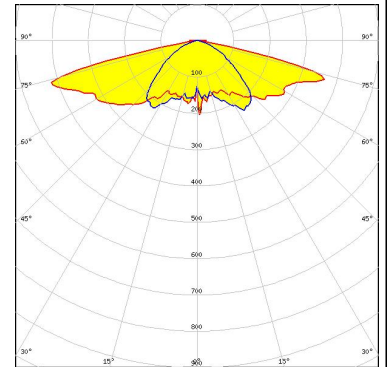
LED XT-E  
 FWHM / FWTM 153.0 + 110.0° / 180.0 + 145.0°  
 Efficiency 95 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



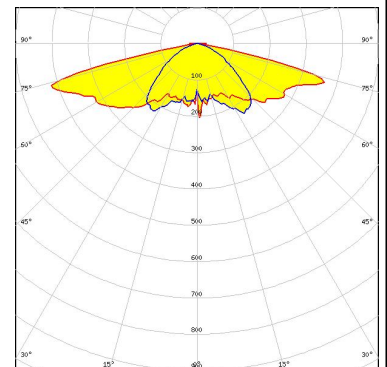
LED XT-E  
 FWHM / FWTM 155.0 + 110.0° / 170.0 + 146.0°  
 Efficiency 91 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XT-E HVW  
 FWHM / FWTM 155.0 + 110.0° / 160.0 + 144.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



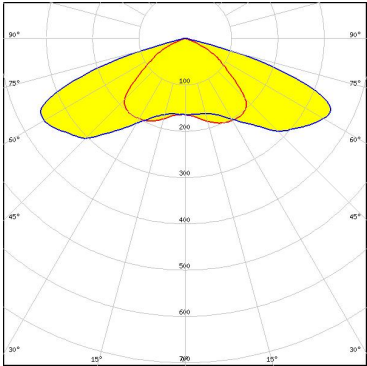
Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**LUMILEDS**

LED	LUXEON 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

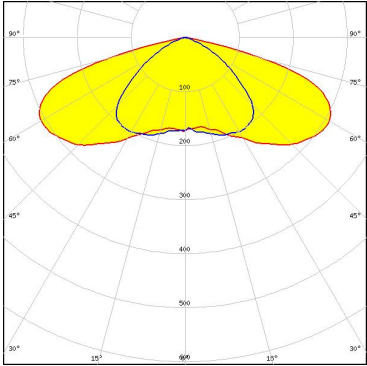


Light distribution files

**LUMILEDS**

LED	LUXEON 5050 Square LES
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

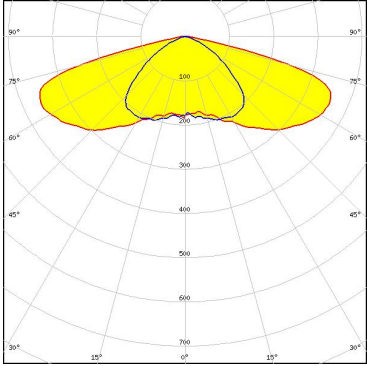


Light distribution files

**LUMILEDS**

LED	LUXEON 5050 Square LES
FWHM / FWTM	152.0 + 112.0° / 160.0 + 140.0°
Efficiency	96 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

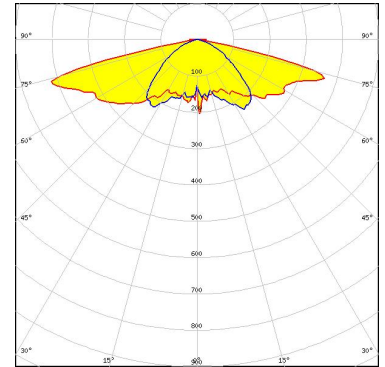
Light distribution files



#### OPTICAL RESULTS (SIMULATED):



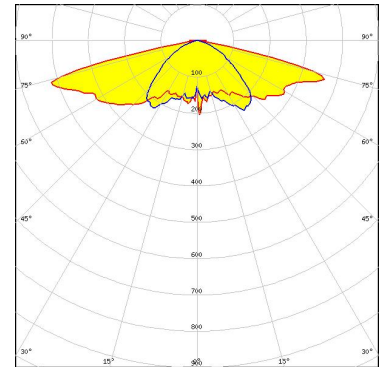
**LED** LUXEON R  
**FWHM / FWTM** 150.0 + 107.0° / 156.0 + 138.0°  
**Efficiency** 92 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



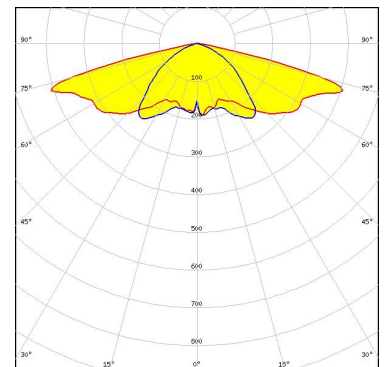
**LED** LUXEON Rebel ES  
**FWHM / FWTM** 151.0 + 106.0° / 157.0 + 139.0°  
**Efficiency** 92 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** LUXEON T  
**FWHM / FWTM** 154.0 + 110.0° / 160.0 + 140.0°  
**Efficiency** 96 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

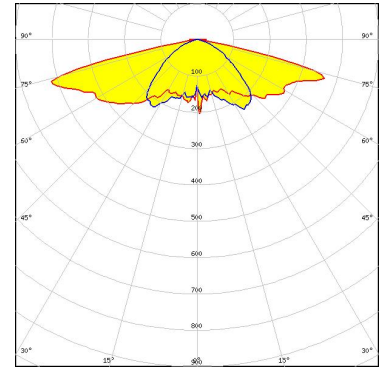


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



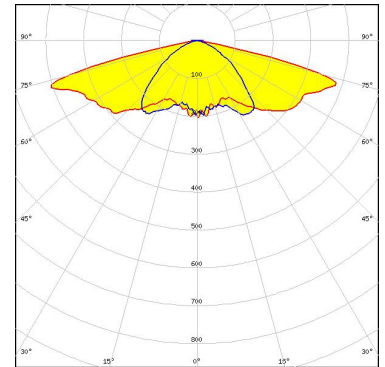
LED LUXEON TX  
 FWHM / FWTM 153.0 + 108.0° / 158.0 + 143.0°  
 Efficiency 92 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



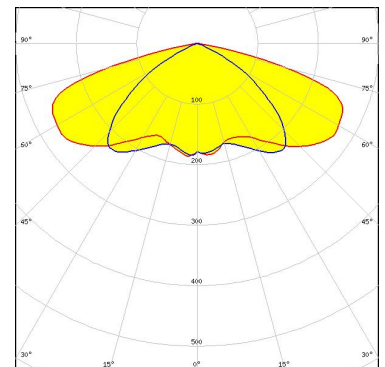
LED LUXEON V2  
 FWHM / FWTM 154.0 + 110.0° / 160.0 + 141.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
 FWHM / FWTM 150.0 + 112.0° / 160.0 + 132.0°  
 Efficiency 84 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



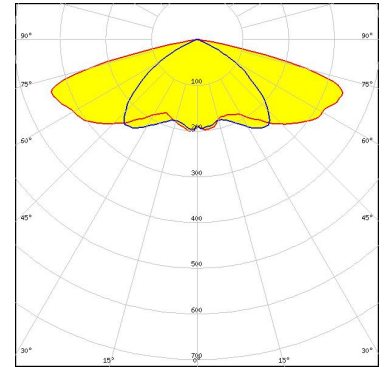
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



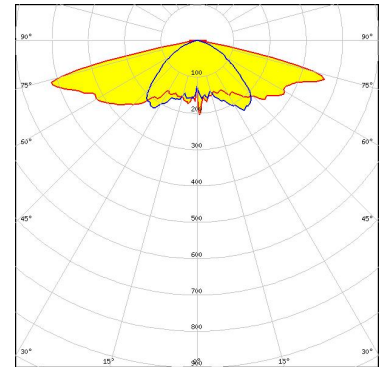
**LED** LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
**FWHM / FWTM** 154.0 + 114.0° / 160.0 + 132.0°  
**Efficiency** 96 %  
**Peak intensity** 0.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



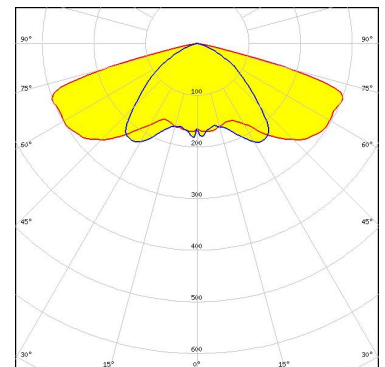
**LED** NCSxx19B  
**FWHM / FWTM** 152.0 + 111.0° / 156.0 + 162.0°  
**Efficiency** 91 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



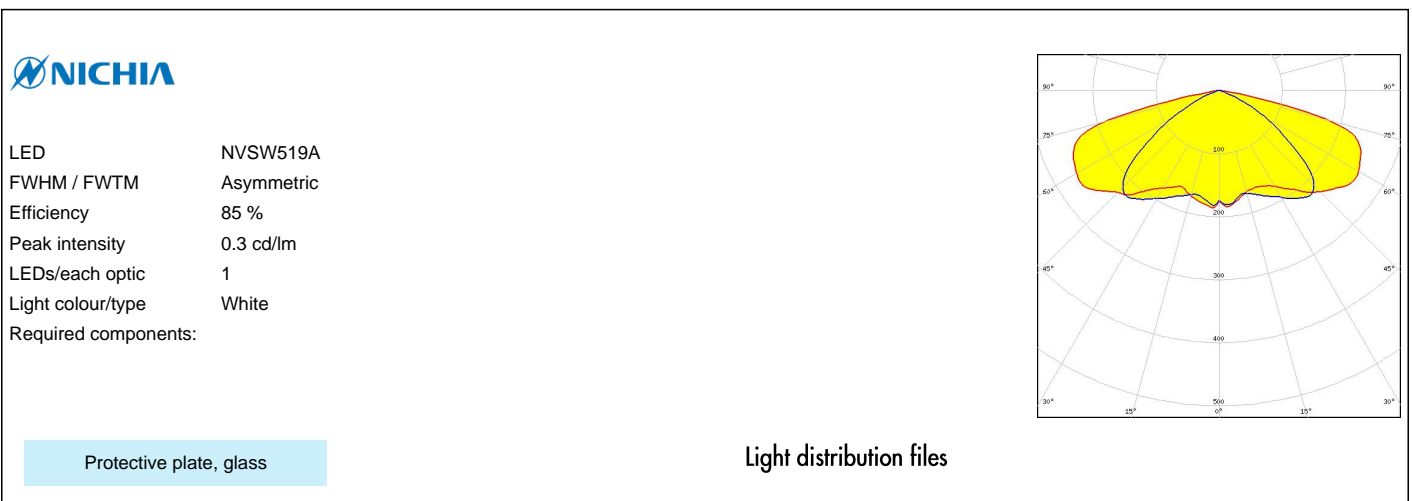
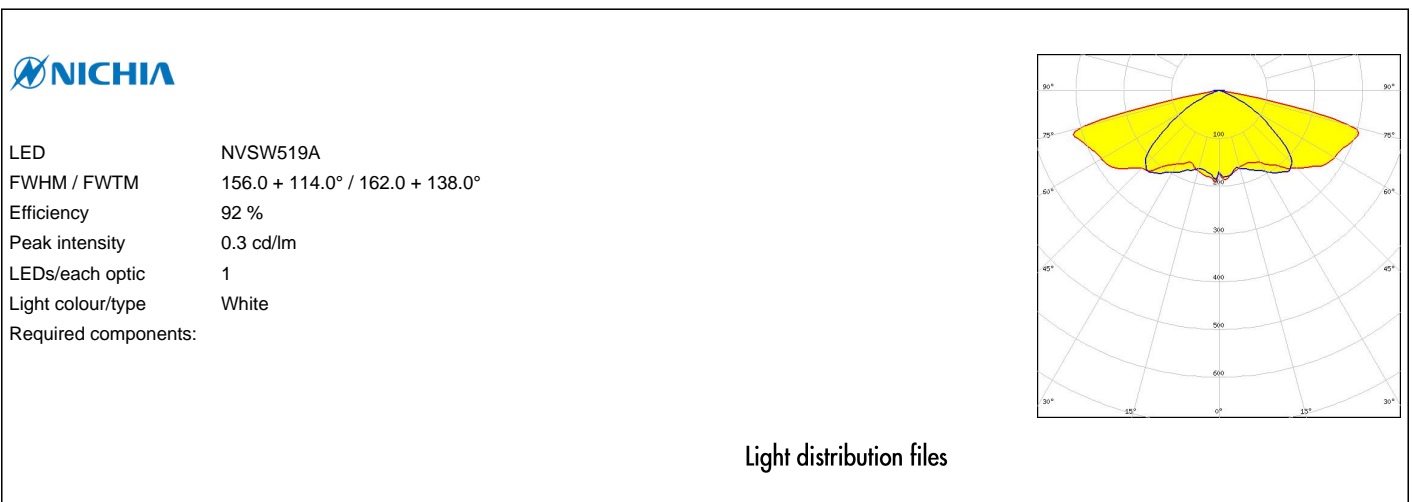
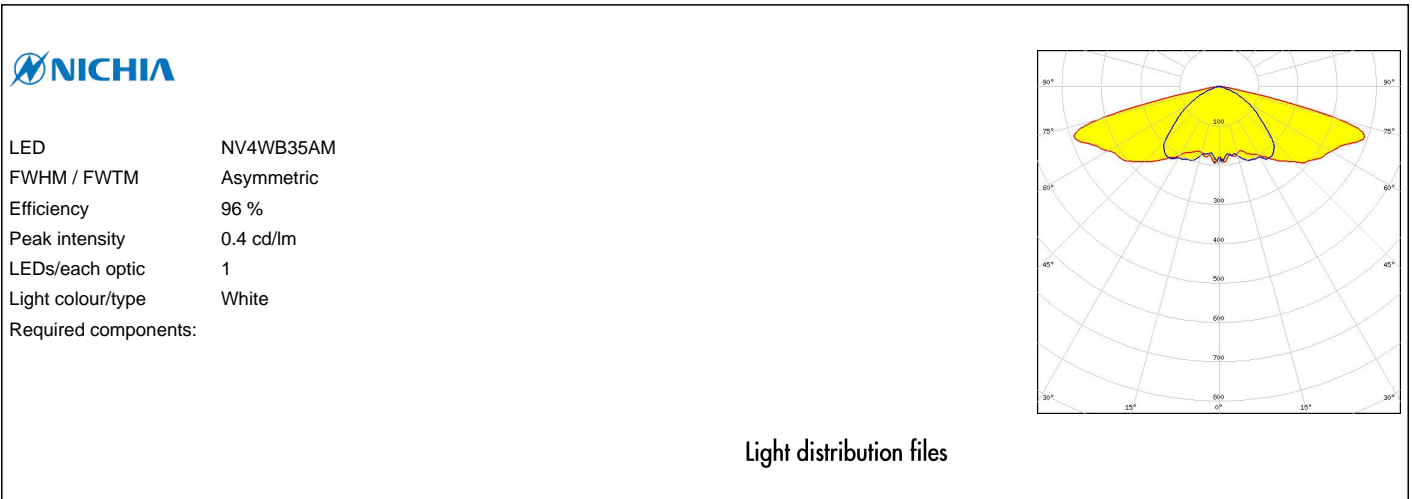
**LED** NF2x757G  
**FWHM / FWTM** 150.0 + 106.0° / 156.0 + 138.0°  
**Efficiency** 85 %  
**Peak intensity** 0.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



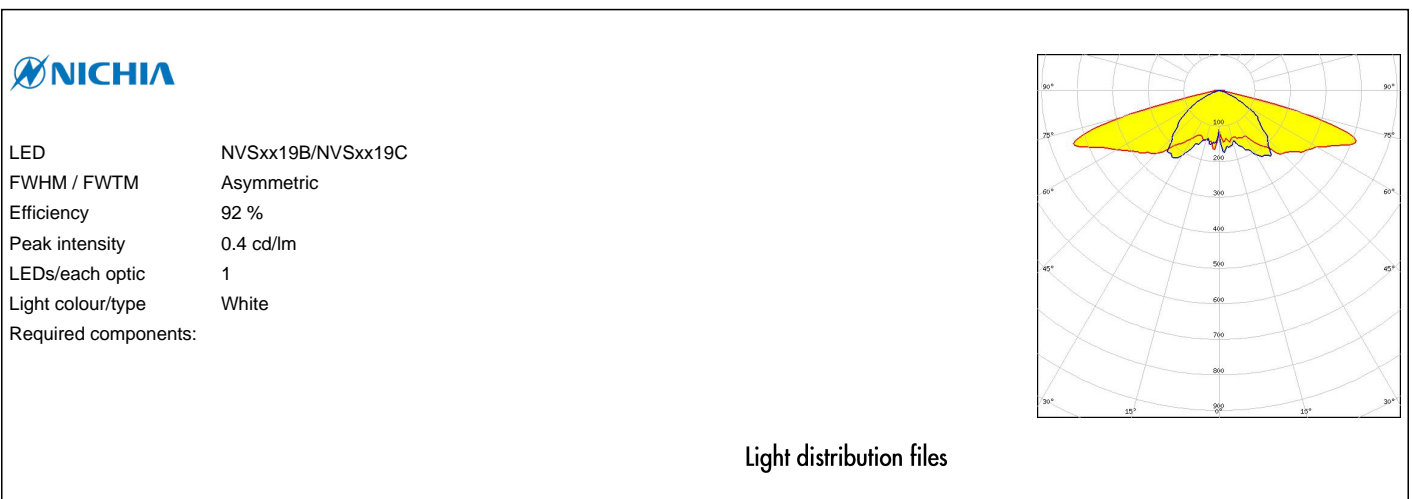
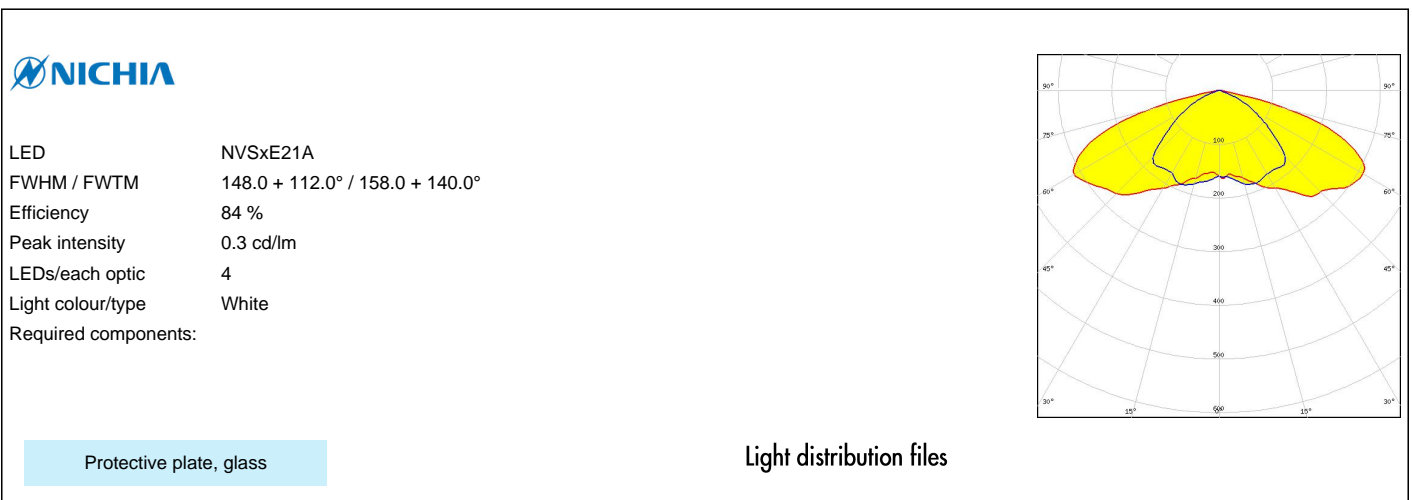
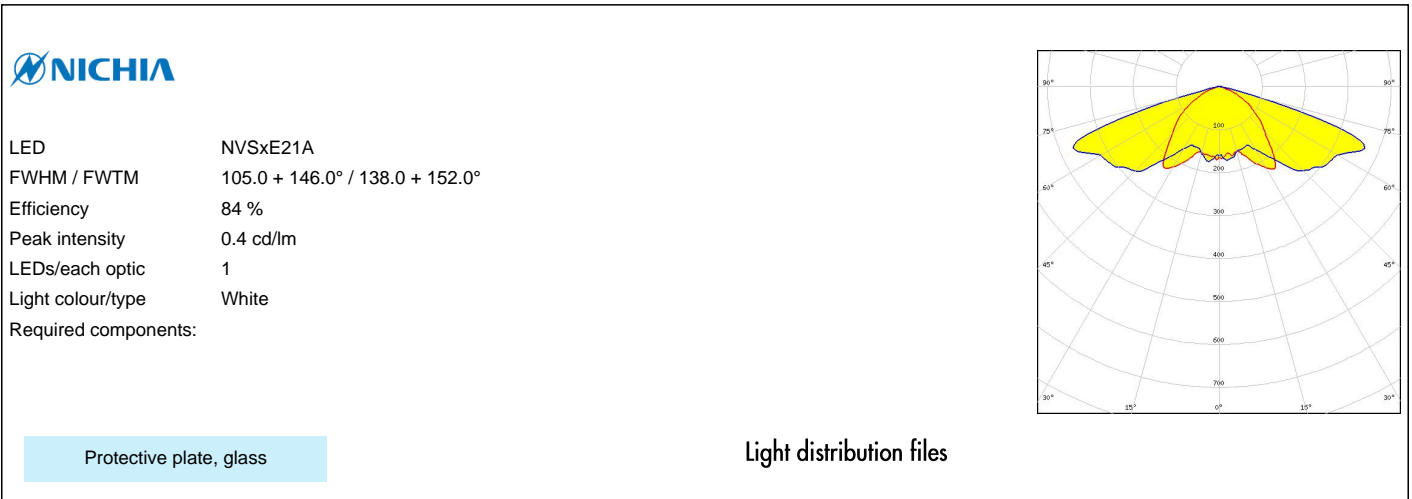
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):

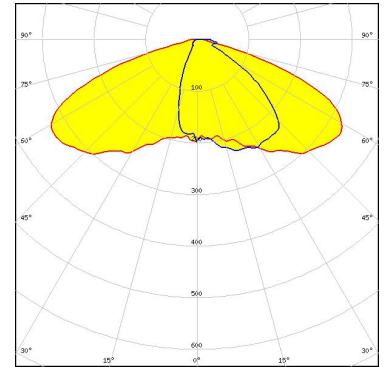


#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM Asymmetric  
Efficiency 72 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:  
C17580\_STRADA-2X2-SHD-WHT



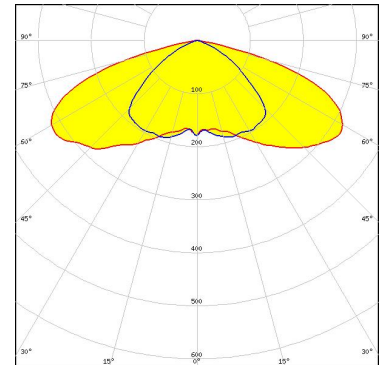
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM Asymmetric  
Efficiency 87 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

Protective plate, glass

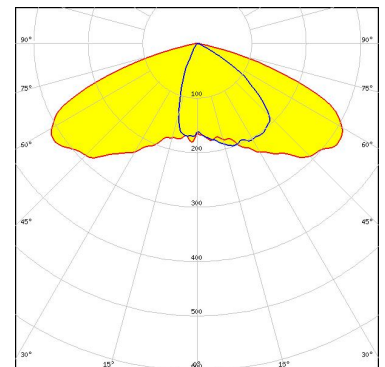


Light distribution files

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM Asymmetric  
Efficiency 61 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:  
C17677\_STRADA-2X2-SHD-BLK

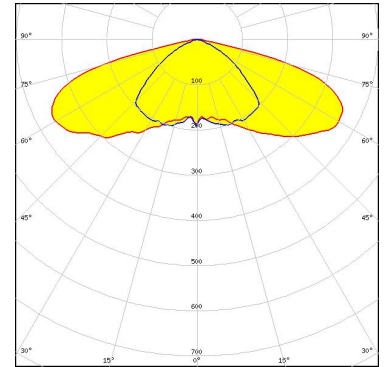


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

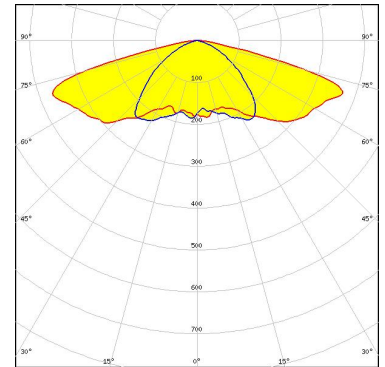
LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

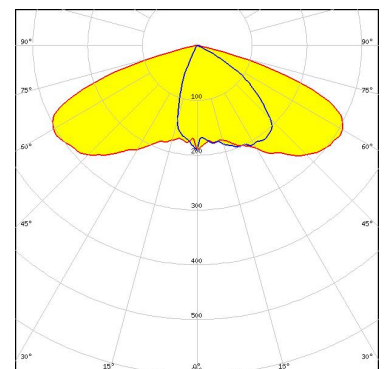
LED OSCONIQ P 3737 (3W) PUSTA1  
 FWHM / FWTM 153.0 + 92.0° / 163.0 + 137.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSCONIQ S 5050 (Q9LR35)  
 FWHM / FWTM Asymmetric  
 Efficiency 61 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17677\_STRADA-2X2-SHD-BLK

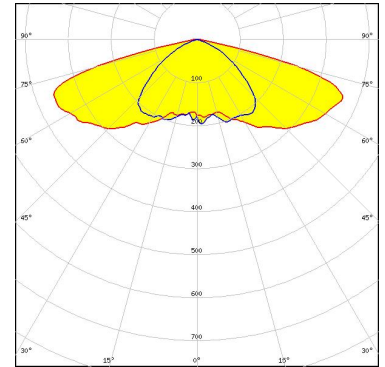


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

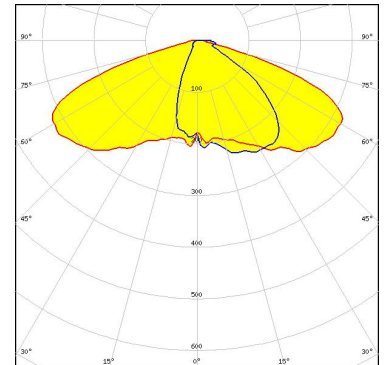
LED OSCONIQ S 5050 (Q9LR35)  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

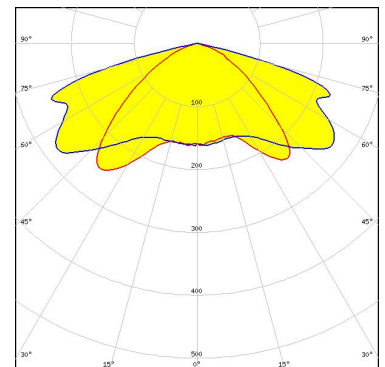
LED OSCONIQ S 5050 (Q9LR35)  
 FWHM / FWTM Asymmetric  
 Efficiency 72 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17580\_STRADA-2X2-SHD-WHT



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 148.0 + 116.0°  
 Efficiency 82 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Protective plate, glass

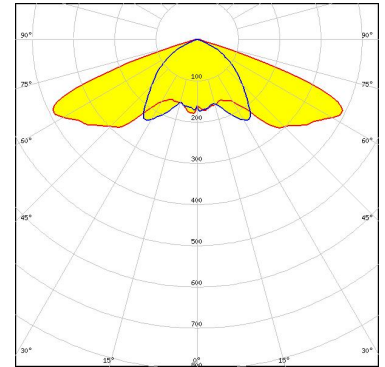
Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM Asymmetric  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

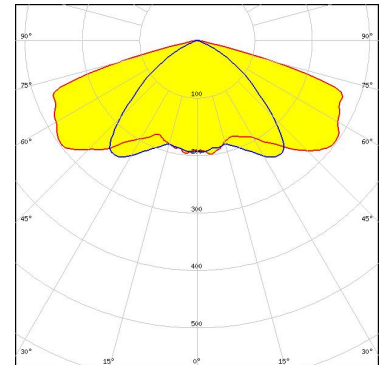


Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM SQUARE Essential GW CPSRM1.PM  
 FWHM / FWTM 148.0 + 104.0° / 156.0 + 132.0°  
 Efficiency 85 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

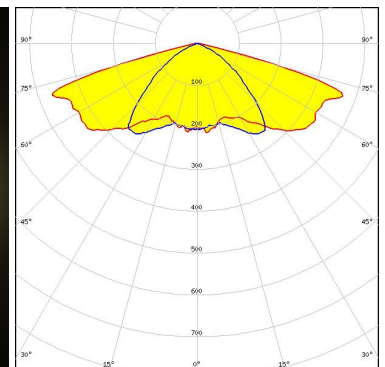
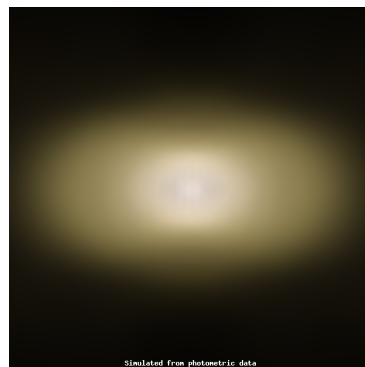
Protective plate, glass



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM SQUARE Essential GW CPSRM1.PM  
 FWHM / FWTM 150.0 + 104.0° / 156.0 + 132.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

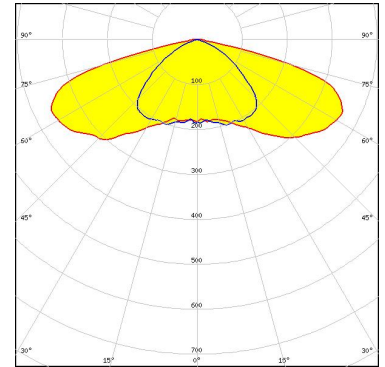


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### PHILIPS

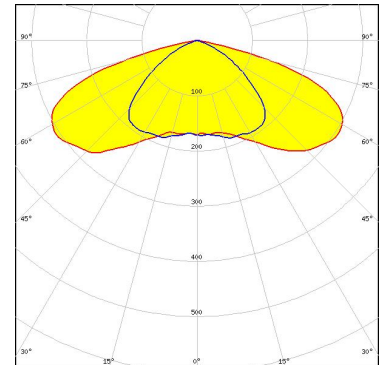
LED	Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM	152.0 + 112.0° / 160.0 + 140.0°
Efficiency	97 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

### PHILIPS

LED	Fortimo FastFlex LED 2x8 DA (U)HE
FWHM / FWTM	148.0 + 112.0° / 158.0 + 138.0°
Efficiency	85 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

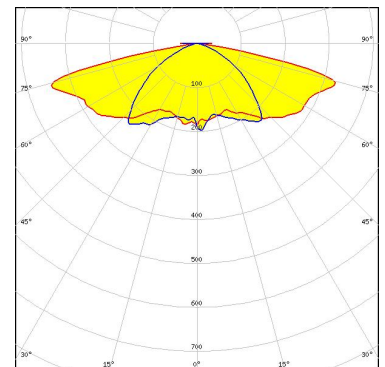


Protective plate, glass

Light distribution files

### PHILIPS

LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM	157.0 + 94.0° / 164.0 + 120.0°
Efficiency	94 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

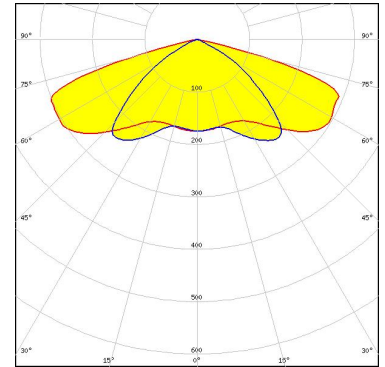
#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED	HiLOM RH12 Z (LH351C)
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

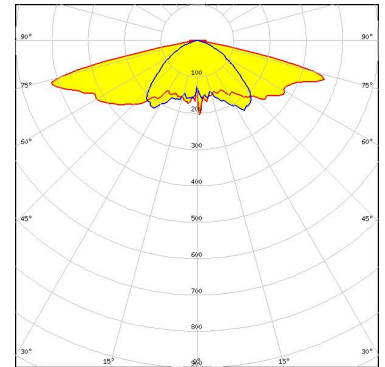
Light distribution files



### SAMSUNG

LED	LH351A
FWHM / FWTM	158.0 + 116.0° / 172.0 + 163.0°
Efficiency	92 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

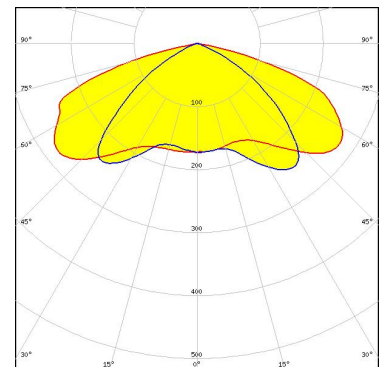


### SAMSUNG

LED	LH351B
FWHM / FWTM	Asymmetric
Efficiency	85 %
Peak intensity	0.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

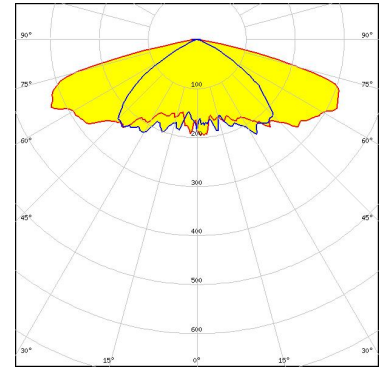
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

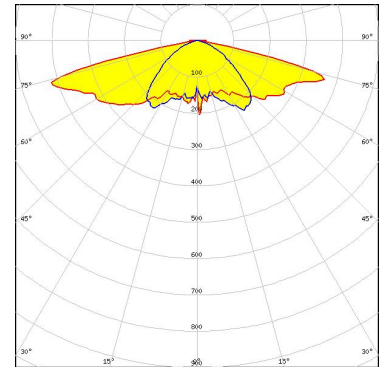
LED LH351D  
FWHM / FWTM 153.0 + 113.0° / 160.0 + 132.0°  
Efficiency 92 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

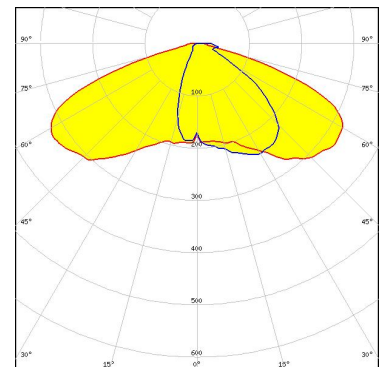
LED LH351Z  
FWHM / FWTM 150.0 + 105.0° / 156.0 + 126.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### SAMSUNG

LED LH502D  
FWHM / FWTM Asymmetric  
Efficiency 72 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C17580\_STRADA-2X2-SHD-WHT



Light distribution files

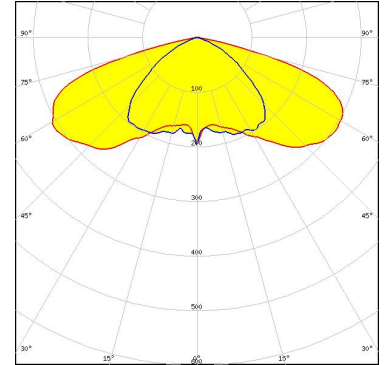
#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED LH502D  
FWHM / FWTM 149.0 + 110.0° / 158.0 + 138.0°  
Efficiency 85 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Protective plate, glass

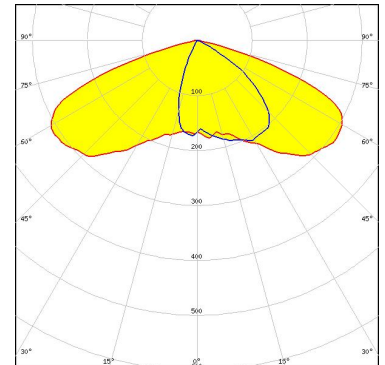
Light distribution files



### SAMSUNG

LED LH502D  
FWHM / FWTM Asymmetric  
Efficiency 61 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C17677\_STRADA-2X2-SHD-BLK

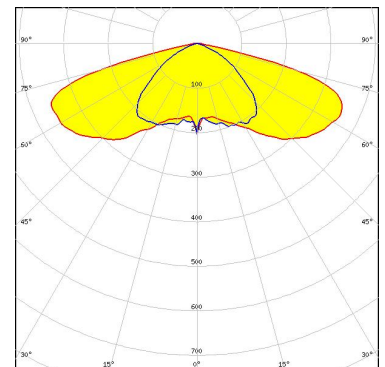
Light distribution files



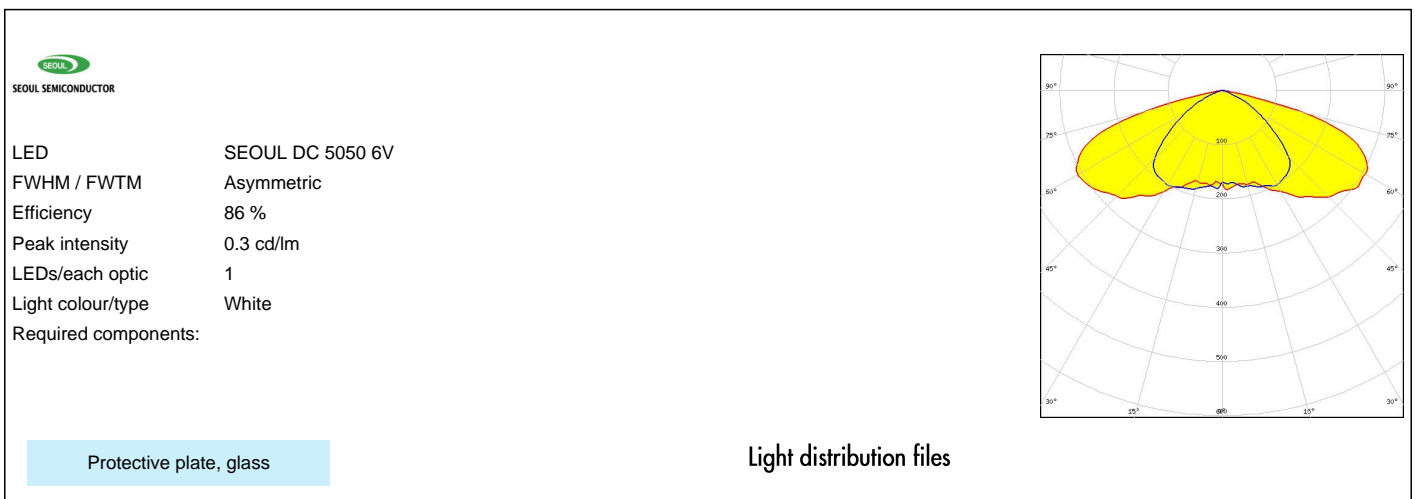
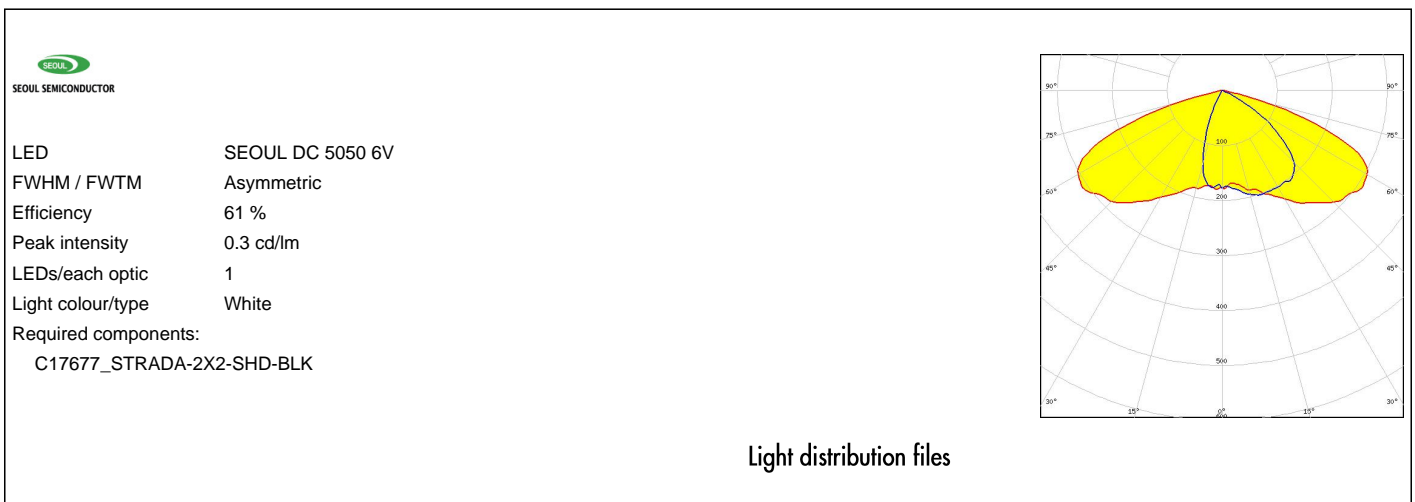
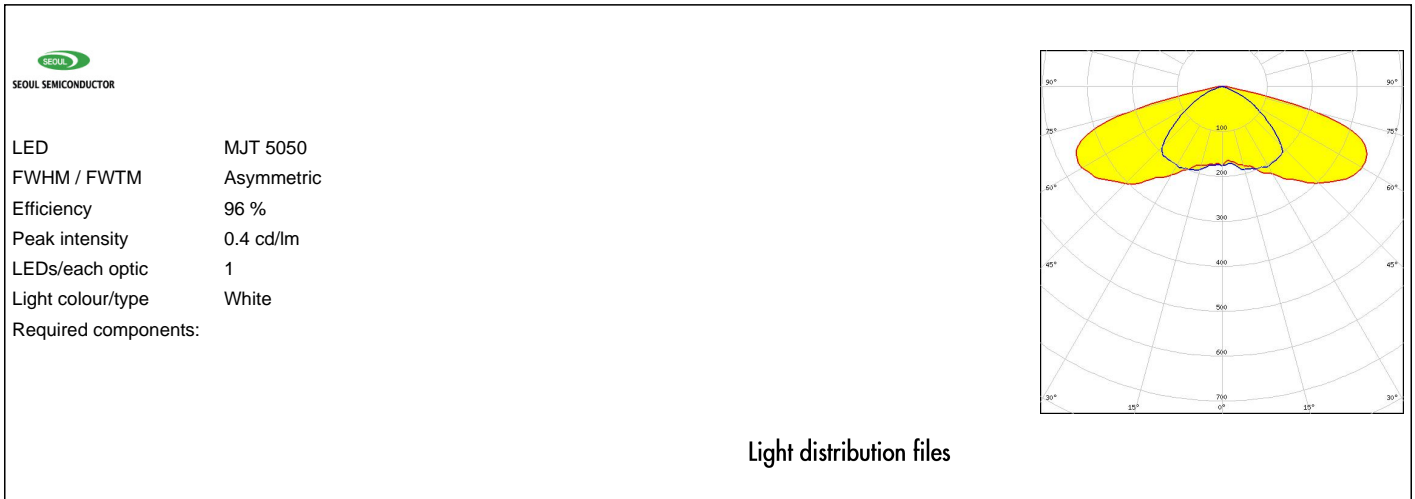
### SAMSUNG

LED LH502D  
FWHM / FWTM 152.0 + 112.0° / 158.0 + 140.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

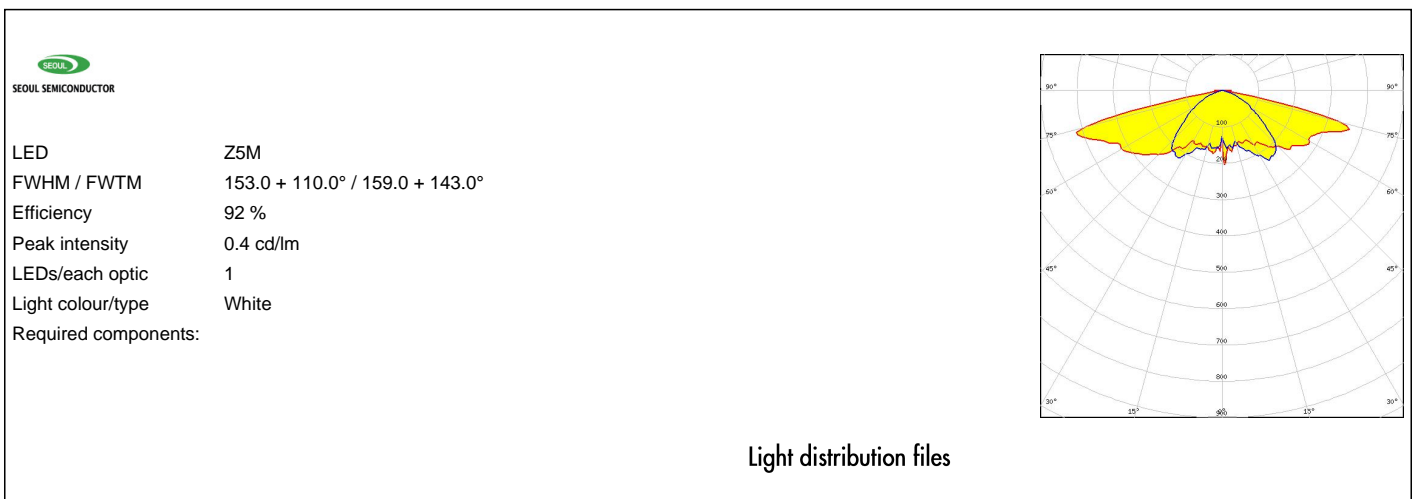
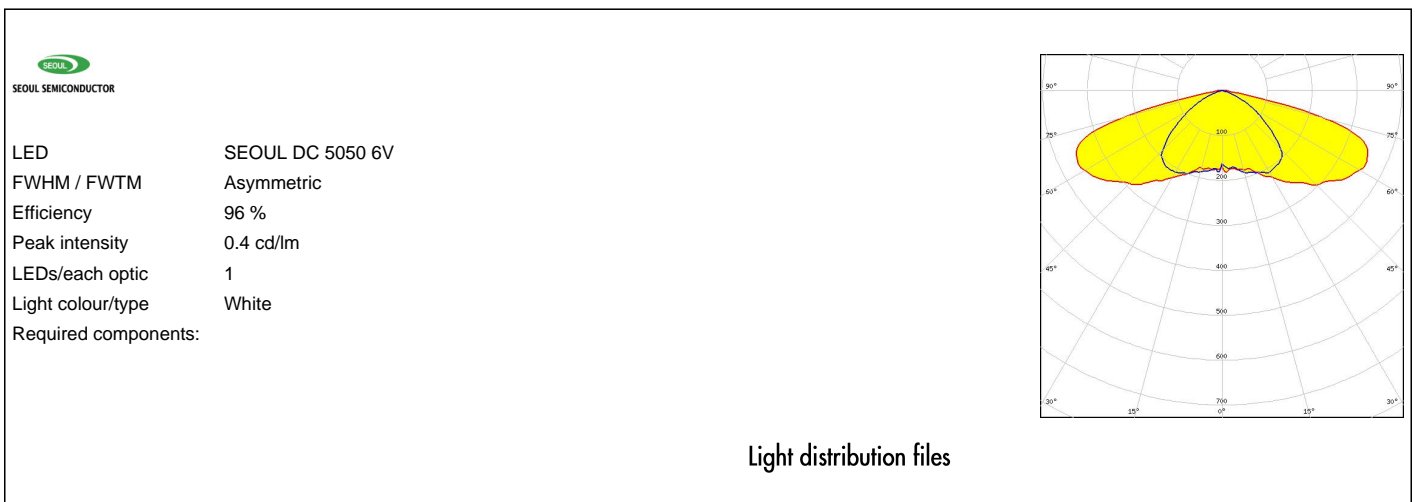
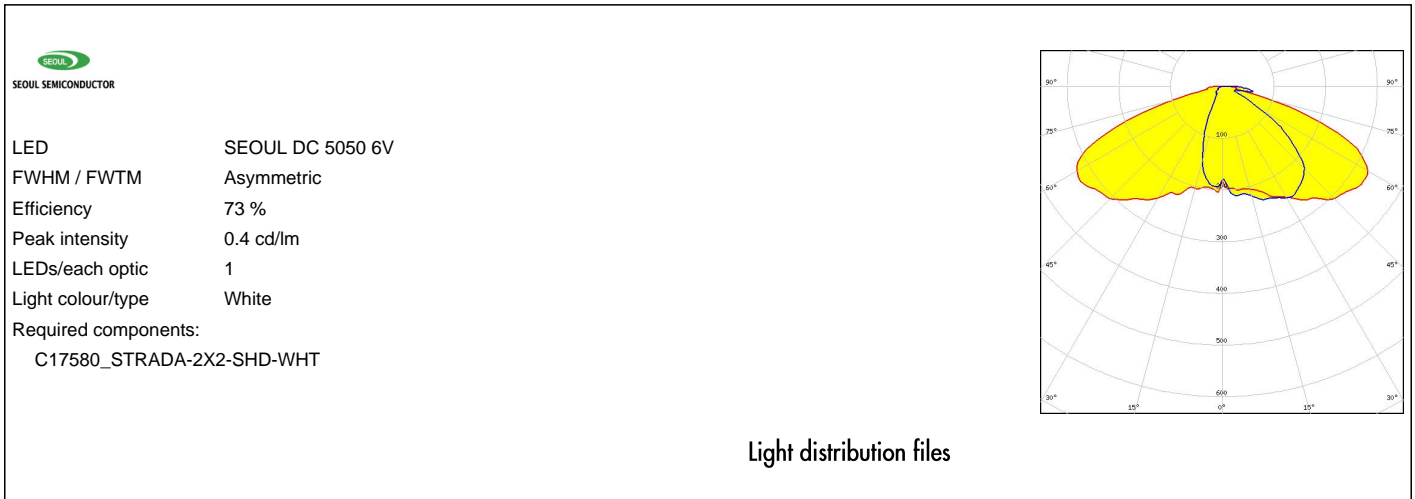
Light distribution files



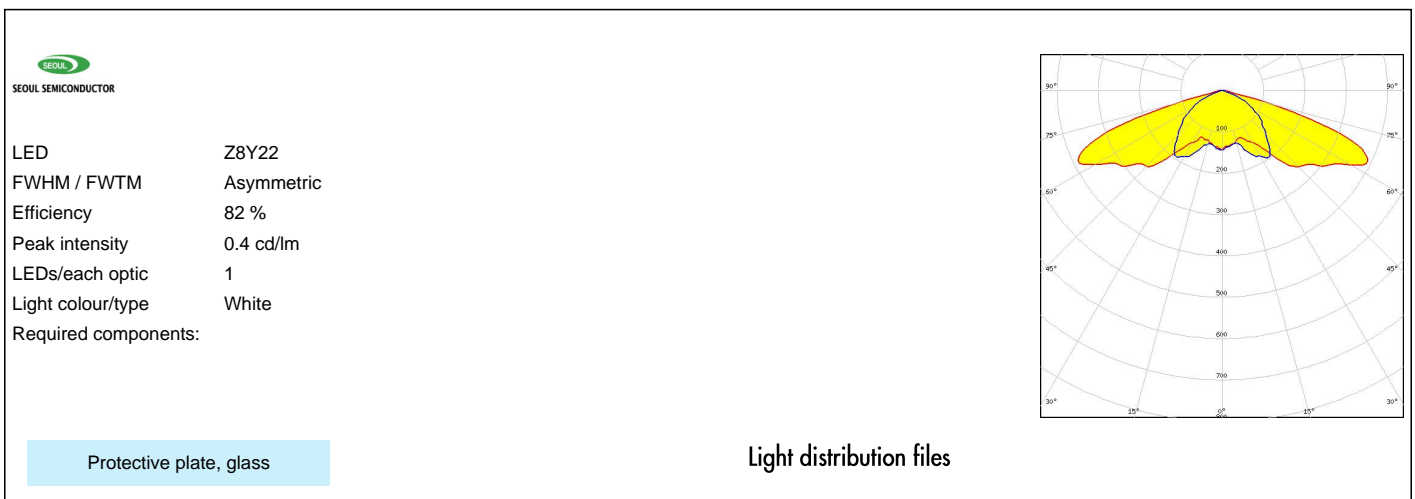
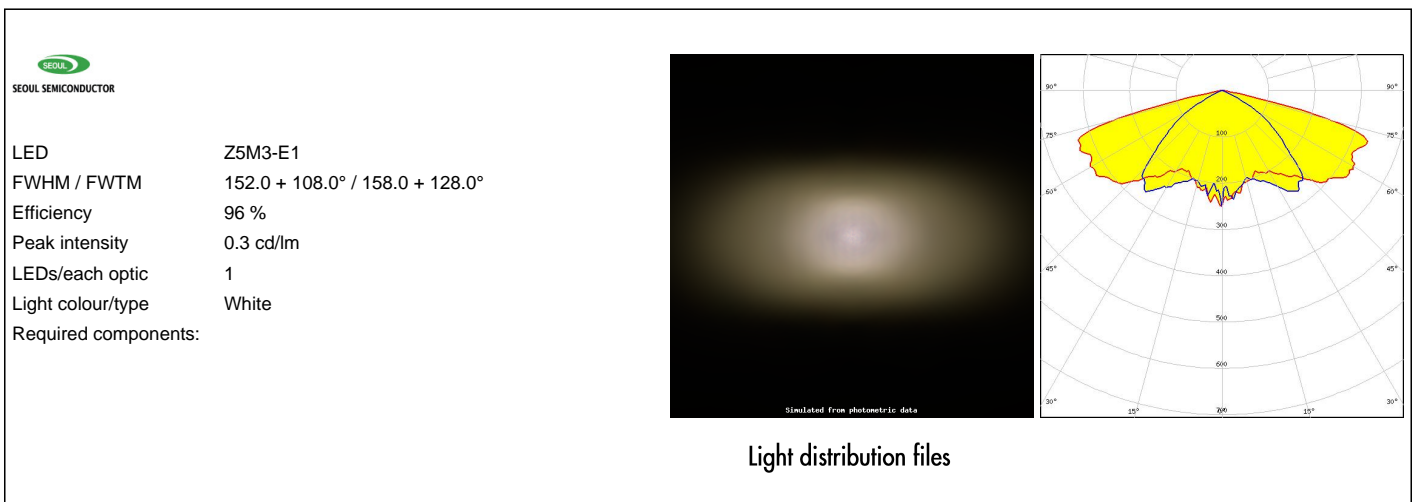
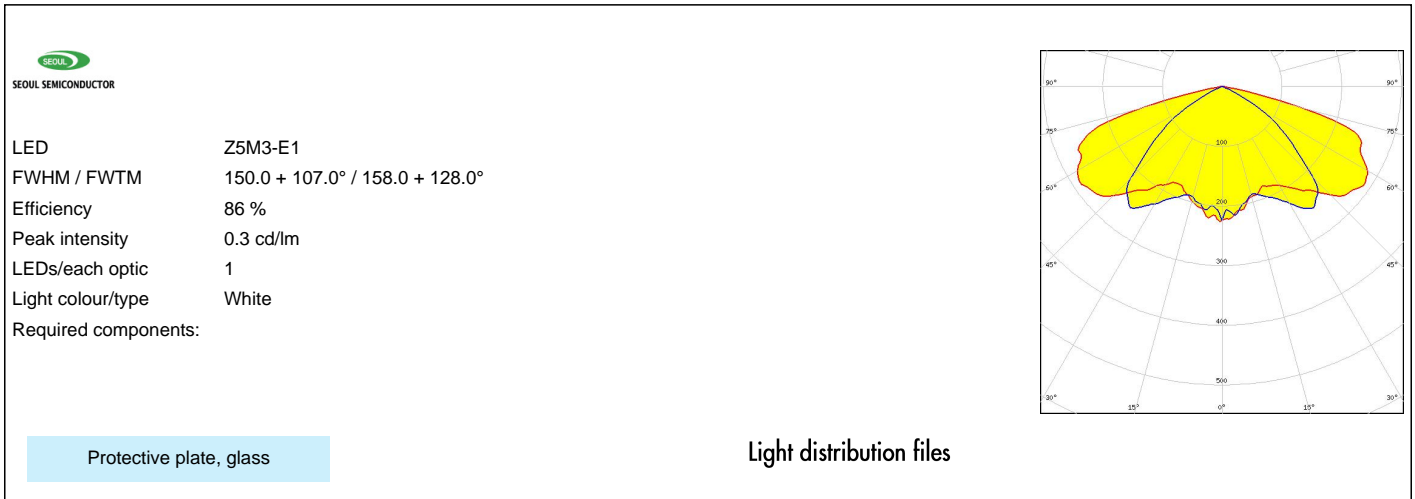
#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):



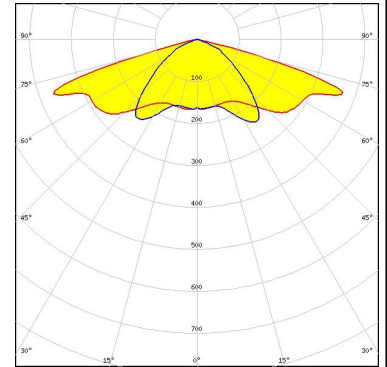
#### OPTICAL RESULTS (SIMULATED):

### TRIDONIC

LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM	Asymmetric
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

Light distribution files



#### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

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